

IN THE CLAIMS:

Cancel claims 25-39, 42, and 45, add claims 47-49, and amend claims 40-41, 43, and 46.

1-39. (Canceled).

40. (Currently amended). ~~A~~ An injection device (1) according to claim ~~39~~ 49,

characterized in that

the oxygen injector (10) is axially displaceable and wherein an outlet plane (5) of the oxygen injector (10) in each position thereof is located between planes (E3) and (E4) of the hot gas union (2).

41. (Currently amended). An injection device (1) according to claim ~~39~~ 49,

characterized in that

outlet regions of the gases are extended by a common hot gas sleeve (3).

42. (Canceled).

43. (Currently amended). An injection device (1) according to claim
39 49,

characterized in that

within the ~~central~~ oxygen injector (10), an additive injector in form of an additional coaxial tube with an outlet opening (16), which is formed as a mouth or nozzle, is arranged.

44. (Previously presented). An injection device (1) according to
claim 43,

characterized in that

the outlet opening (16) of the additive injector (15) is formed of a wear-resistant material and is replaceable.

45. (Canceled).

46. (Currently amended). An injection device (1) according to claim
39 49,

characterized in that

separate subassemblies of the injector device (1) are mounted on a common support arranged in a wall of the metallurgical installation.

47. (New). An injection device (1) for pyrometallurgical treatment of metals, metal melts, and or slags in a metallurgical installation or a melting vessel, in particular for blowing up or in oxygen-rich gases and/or carbon-containing material in an electric arc furnace, wherein the injection device accelerates oxygen-containing gases, (6) to a supersonic speed, with an ejected therefrom, high-velocity jet (6') being protected by a gaseous envelope completely enveloping same for using the same for pyrometallurgical treatment,

characterized by

a modular construction of separate subassemblies consisting of an oxygen injector (10) with an inner wall (11) and a Laval nozzle (13) for accelerating an oxygen-rich gas (6), which is surrounded by a hot gas union (2) an outlet region of which defines an annular nozzle slot (4) for passing and acceleration of a hot gas (5) and in an entrance region of which, water spray means is arranged.

48. (New). An injection device (1) for pyrometallurgical treatment of metals, metal melts, and or slags in a metallurgical installation or a melting vessel, in particular for blowing up or in oxygen-rich gases and/or carbon-

containing material in an electric arc furnace, wherein the injection device accelerates oxygen-containing gases, (6) to a supersonic speed, with an ejected therefrom, high-velocity jet (6') being protected by a gaseous envelope completely enveloping same for using the same for pyrometallurgical treatment,

characterized by

a modular construction of separate subassemblies consisting of an oxygen injector (10) with an inner wall (11) and a Laval nozzle (13) for accelerating an oxygen-rich gas (6), which is surrounded by a hot gas union (2) an outlet region of which defines an annular nozzle slot (4) for passing and acceleration of a hot gas (5), and

characterized in that

within the central oxygen injector (10), an additive injector in form of an additional coaxial tube with an outlet opening (16), which is formed as a mouth or nozzle, is arranged,

the additive injector (15) being axially displaceable and positioned with its outlet plane (B) between planes (E1) and (E2) of an oxygen injector (10).

49. (New). An injection device (1) for pyrometallurgical treatment of metals, metal melts, and or slags in a metallurgical installation or a melting

vessel, in particular for blowing up or in oxygen-rich gases and/or carbon-containing material in an electric arc furnace, wherein the injection device accelerates oxygen-containing gases, (6) to a supersonic speed, with an ejected therefrom, high-velocity jet (6') being protected by a gaseous envelope completely enveloping same for using the same for pyrometallurgical treatment, in particular for effecting the method according to one or more of preceding claims,

characterized by

a modular construction of separate subassemblies consisting of an oxygen injector (10) with an inner wall (11) and a Laval nozzle (13) for accelerating an oxygen-rich gas (6), and a hot gas union (2) surrounding the oxygen injector (10) and an outlet region of which has an inwardly directed thickening (7) that forms, together with the oxygen injector (10), an annular nozzle slot (4) for passing and acceleration of a hot gas (5).